

WHAT IS CLAIMED IS:

1. An image processing method comprising:
 - an input step of inputting image data obtained by photographing a photographic subject;
 - 5 a first extraction step of analyzing said image data and extracting a characteristic amount in an anatomic area in a photographic subject image;
 - a second extraction step of extracting the characteristic amount in a preset area in said
 - 10 photographic subject image;
 - a setting step of setting the characteristic amount in said photographic subject image based on a relation between the characteristic amount obtained by said first extraction step and the characteristic amount obtained by said second extraction step; and
 - 15 an image processing step of performing an image processing by using an image processing condition based on the characteristic amount set by said setting step.
- 20 2. The image processing method according to claim 1 wherein said preset area in the photographic subject image includes an area set in accordance with a position of a photo timer.
- 25 3. The image processing method according to claim 1 wherein said setting step comprises steps of: obtaining a difference between the characteristic

amount obtained by said first extraction step and the characteristic amount obtained by said second extraction step; judging whether or not the characteristic amount obtained by said first extraction
5 step is appropriate based on the difference; and selecting the characteristic amount obtained by said first extraction step or the characteristic amount obtained by said second extraction step based on a judgment result.

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4. An image processing method for extracting a characteristic amount for use in a gray scale conversion processing from an object image, comprising:
an extraction step of extracting a plurality of
15 characteristic amounts from said object image; and
a selection step of selecting the characteristic amount for use in said gray scale conversion processing from the respective characteristic amounts obtained by said extraction step based on a result of comparison of
20 a difference among the respective characteristic amounts obtained by said extraction step with a predetermined threshold value.

5. The image processing method according to claim
25 4 wherein said extraction step comprises a first extraction step of limiting a predetermined area of said object image and extracting a first characteristic

amount from the predetermined area, and a second extraction step of extracting a second characteristic amount from a fixed area of said object image, and

said selection step comprises a step of selecting
5 said second characteristic amount when a difference
between said first characteristic amount and said
second characteristic amount is larger than said
predetermined threshold value, and a step of selecting
said first characteristic amount when the difference
10 between said first characteristic amount and said
second characteristic amount is not larger than said
predetermined threshold value.

6. An image processing method for extracting a
15 characteristic amount for use in a gray scale
conversion processing from an object image, comprising:

an extraction step of extracting at least a first
characteristic amount and a second characteristic
amount from said object image; and
20 a selection step of selecting the characteristic
amount for use in said gray scale conversion processing
from at least said first characteristic amount and said
second characteristic amount based on a result of
comparison of a difference between a pixel value
25 corresponding to a predetermined density value obtained
from a gray scale conversion curve defined by said
first characteristic amount, and said second

characteristic amount, with a predetermined threshold value.

7. The image processing method according to claim
5 6 wherein said extraction step comprises a first
extraction step of limiting a predetermined area of
said object image and extracting said first
characteristic amount from the predetermined area, and
a second extraction step of extracting said second
10 characteristic amount from a fixed area of said object
image, and
said selection step comprises a step of selecting
said second characteristic amount as the characteristic
amount for use in said gray scale conversion processing
15 when a difference between the pixel value corresponding
to said predetermined density and said second
characteristic amount is larger than said predetermined
threshold value, and a step of selecting said first
characteristic amount or the pixel value corresponding
20 to said predetermined density value as the
characteristic amount for use in said gray scale
conversion processing when the difference between the
pixel value corresponding to said predetermined density
value and said second characteristic amount is not
25 larger than said predetermined threshold value.

8. An image processing apparatus comprising:

input means for inputting image data obtained by photographing a photographic subject;

first extraction means for analyzing said image data and extracting a characteristic amount in an anatomic area in a photographic subject image;

second extraction means for extracting the characteristic amount in a preset area in said photographic subject image;

setting means for setting the characteristic amount in said photographic subject image based on a relation between the characteristic amount obtained by said first extraction means and the characteristic amount obtained by said second extraction means; and
image processing means for performing an image processing by using an image processing condition based on the characteristic amount set by said setting means.

9. An image processing apparatus for extracting a characteristic amount for use in a gray scale conversion processing from an object image, comprising:

extraction means for extracting a plurality of characteristic amounts from said object image; and
selection means for selecting the characteristic amount for use in said gray scale conversion processing from the respective characteristic amounts obtained by said extraction means based on a result of comparison

of a difference among the respective characteristic amounts obtained by said extraction means with a predetermined threshold value.

5 10. An image processing apparatus for extracting a characteristic amount for use in a gray scale conversion processing from an object image, comprising:

10 extraction means for extracting at least a first characteristic amount and a second characteristic amount from said object image; and

15 selection means for selecting the characteristic amount for use in said gray scale conversion processing from at least said first characteristic amount and said second characteristic amount based on a result of comparison of a difference between a pixel value corresponding to a predetermined density value obtained from a gray scale conversion curve defined by said first characteristic amount, and said second characteristic amount, with a predetermined threshold value.

20 11. An image processing program for executing a method comprising:

25 an input step of inputting image data obtained by photographing a photographic subject;

 a first extraction step of analyzing said image data and extracting a characteristic amount in an

anatomic area in a photographic subject image;

a second extraction step of extracting the characteristic amount in a preset area in said photographic subject image;

5 a setting step of setting the characteristic amount in said photographic subject image based on a relation between the characteristic amount obtained by said first extraction step and the characteristic amount obtained by said second extraction step; and

10 an image processing step of performing an image processing by using an image processing condition based on the characteristic amount set by said setting step.

12. An image processing program for executing a method for extracting a characteristic amount for use in a gray scale conversion processing from an object image, said method comprising:

an extraction step of extracting a plurality of characteristic amounts from said object image; and

20 a selection step of selecting the characteristic amount for use in said gray scale conversion processing from the respective characteristic amounts obtained by said extraction step based on a result of comparison of a difference among the respective characteristic amounts obtained by said extraction step with a predetermined threshold value.

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13. An image processing program for executing a method for extracting a characteristic amount for use in a gray scale conversion processing from an object image, said method comprising:

5 an extraction step of extracting at least a first characteristic amount and a second characteristic amount from said object image; and

10 a selection step of selecting the characteristic amount for use in said gray scale conversion processing from at least said first characteristic amount and said second characteristic amount based on a result of comparison of a difference between a pixel value corresponding to a predetermined density value obtained from a gray scale conversion curve defined by said 15 first characteristic amount, and said second characteristic amount, with a predetermined threshold value.